

IN THE CLAIMS

1. (cancelled)

2. (cancelled)

3. (previously presented) The structure of claim 5 further comprising an attic that is in air communication with the air flow passage.

4. (previously presented) The structure of claim 5 further comprising a roof that is coupled to the external wall section to form an air seal therebetween.

5. (currently amended) A structure comprising:

at least one outer wall, said outer wall further comprising:

an un-insulated internal wall section and an insulated external wall section, said internal wall section and said external wall section defining an air flow passage therebetween, said air flow passage channeling a conditioned air flow in-between and substantially parallel to said internal wall section and said external wall section and allowing the conditioned air to exit to outside environment;

an open space adjacent the inner wall; and

an air circulation system within the structure providing the conditioned air flow through the open space and into the air flow passage to inhibit moisture on the internal wall section, wherein the air circulation system creates a positive air pressure in at least a portion of the structure to cause at least some of said airflow to flow through the air flow passage, wherein the air circulation system comprises

at least one of (i) a central mechanical air cooling device, (ii) a heating element, and (iii) a humidity control device, and wherein the air circulation system maintains the air temperature in the air flow passage at substantially the same temperature as the air in the open space.

6. (cancelled)

7. (currently amended) The structure of claim 5 wherein the at least one outer wall includes a plurality of such outer walls and a roof to form an enclosed structure.

8. (previously presented) The structure of claim 5 wherein the insulated external wall section comprises an insulating layer.

9. (original) The structure of claim 8 wherein the external wall section further comprises:

a weather-resistant layer outside of the insulating layer; and
a sheath inside of the insulating layer.

10. (previously presented) The structure of claim 5 wherein the internal wall section includes a liquid barrier.

11. (original) The structure of claim 10 wherein the internal wall section further comprises a wall framing system to provide structural support to the internal wall section.

12. (original) The structure of claim 11 wherein the internal wall section further comprises a first sheathing between the liquid barrier and the wall framing system.

13. (previously presented) The structure of claim 12 wherein the internal wall section further comprises a second sheathing inside of the wall framing system.

14. (previously presented) The structure of claim 5 further comprising a sensor chosen from the group consisting of: sensor providing a signal indicative of presence of moisture; and a sensor providing a signal indicative of temperature.

15. (original) The structure of claim 14 wherein the at least one sensor is placed at one of (i) in the air flow passage; (ii) in an attic of the structure; (iii) adjacent to the air circulation system.

16. (original) The structure of claim 14 further comprising a controller for controlling the air circulation system in response to the signal from the at least one sensor.

17. (currently amended) An enclosed structure comprising:

at least one outer wall that includes

an un-insulated internal wall section and an insulated external wall section, said internal wall section and said external wall section defining an air flow passage therebetween said air flow passage channeling a

conditioned air flow in-between and substantially parallel to said internal wall section and said external wall section and allowing the conditioned air to exit to outside environment;

an open space adjacent the inner wall; and

an air circulation system within the structure providing the conditioned air flow through the open space and into the air flow passage to inhibit moisture on the internal wall section, wherein the air circulation system creates a positive air pressure in at least a portion of the structure to cause at least some of said airflow to flow through the air flow passage, and wherein the air circulation system comprises at least one of (i) a central mechanical air cooling device, (ii) a heating element, and (iii) a humidity control device;

at least one sensor for generating a signal indicative of temperature in the air flow passage; and

a controller for controlling said air circulation system in response to said signal from said at least one sensor to maintain the air temperature in the air flow passage at substantially the same temperature as the air in the open space to inhibit moisture on the internal wall section.

18. (previously presented) The enclosed structure of claim 17, further comprising a relative humidity sensor located proximate to the air flow passage for indicating the relative humidity of the air flow in said air flow passage.

19. (previously presented) The enclosed structure of claim 18, wherein the controller includes at least one circuit to interface with relative humidity sensor, and a

processor, acting according to programmed instructions, to control the circulation system to provide a predetermined relative humidity of the air flow in said air flow passage.

20. (currently amended) A method for inhibiting moisture accumulation in an outer wall of a structure, comprising:

providing an outer wall having an un-insulated internal wall section and an insulated external wall section, said internal wall section and said external wall section forming an air flow passage thereinbetween, said air flow passage channeling a conditioned air flow in-between and substantially parallel to said internal wall section and said external wall section and allowing the conditioned air to exit to outside environment; and

supplying conditioned air at a positive pressure with an air circulation system through an open space adjacent the internal wall section and into the air flow passage to inhibit moisture accumulation on the internal wall section, wherein the air circulation system maintains the air temperature in the air flow passage at substantially the same temperature as the air in the open space, wherein the air circulation system comprises at least one of (i) a central mechanical air cooling device, (ii) a heating element, and (iii) a humidity control device.

21. (cancelled)

22. (cancelled)

23. (original) The method of claim 20 further comprising determining relative humidity of the air inside the structure.

24. (original) The method of claim 23 further comprising controlling supply of the air in response to the determined relative humidity.

25. (previously presented) The method of claim 23 further comprising controlling the air circulation system in accord to a programmed instruction provided to a controller associated with the air circulation system.

26. (currently amended) A structure comprising:

at least one outer wall, said outer wall further comprising:

an un-insulated internal wall section and an insulated external wall section, said internal wall section and said external wall section defining an air flow passage therebetween, said air flow passage channeling a conditioned air flow in-between and substantially parallel to said internal wall section and said external wall section and allowing the conditioned air to exit to outside environment;

an open space adjacent the inner wall; and

an air circulation system at least in part within the structure providing the conditioned air flow through the air flow passage to inhibit moisture on the internal wall section, wherein the air circulation system creates a positive air pressure in at least a portion of the structure to cause at least some of said conditioned air to flow through the air flow passage, and wherein the air circulation system creates a positive air pressure in at least a portion of the structure to cause at least some of said airflow to flow through the air flow passage, and wherein the air circulation system comprises at least one of (i) a

central mechanical air cooling device, (ii) a heating element, and (iii) a humidity control device, and wherein the air circulation system maintains the air temperature in the air flow passage at substantially the same temperature as the air in the open space.

27. (currently amended) A structure comprising:

at least one outer wall, said outer wall further comprising:

an un-insulated internal wall section and an insulated external wall section, said internal wall section and said external wall section defining an air flow passage therebetween, said air flow passage channeling a conditioned air flow in-between and substantially parallel to said internal wall section and said external wall section and allowing the conditioned air to exit to outside environment;

an open space adjacent the inner wall; and

an air circulation system outside the structure with an air conduit supplying conditioned air from the air circulation system to the structure for providing the airflow through the air flow passage to inhibit moisture on the internal wall section, wherein the air circulation system creates a positive air pressure in at least a portion of the structure to cause at least some of said conditioned air to flow through the air flow passage wherein the air circulation system comprises at least one of (i) a central mechanical air cooling device, (ii) a heating element, and (iii) a humidity control device, and wherein the air circulation system maintains the air

temperature in the air flow passage at substantially the same temperature as the air in the open space.